

Purpose

To establish the procedures for initiating and completing Geotechnical and Geological engineering and investigations for project development. To define the responsibility for requesting the involvement of the Geotechnical Division concerning Preconstruction, Construction, and Maintenance projects. To define the associated responsibilities of Preconstruction, Construction, and Maintenance concerning the Geotechnical Division

Policy

The Department will utilize the Geotechnical Division to address the geotechnical and geological issues as they occur in Preconstruction, Construction, and Maintenance.

Procedures

Geotechnical Procedures For Preconstruction

UDOT 08A7-1.1

Responsibility: Division Director of Roadway Support, Region Preconstruction Engineer, Region Project Manager, Chief Structural Engineer

Actions

1. Involve Geotechnical Division in the Concept, Scoping, and PS&E meetings of all projects that involve any of the 08-1 Geotech activities. (22D, 23D, 24D, 85D, 86D, 87D, 97D, 99D, 07P)

Responsibility: Geotechnical Division

2. Design Phase activities will be achieved by following the guidelines set forth in the UDOT Procedure 08-1, activities 22D, 23D, 24D, 85D, 86D, 87D, 97D, 99D, 07P, and in the Geotechnical Manual of Instruction.

Geotechnical Procedures For Construction

UDOT 08A7-1.2

Responsibility: Region Construction Engineer, Resident Engineer, Region Project Manager

Actions

1. Request Geotechnical Division's assistance in the analyzing of settlement data, piezometer data, inclinometer data, subgrade stabilization, shallow footing excavation observation (as needed), and vibration monitoring (as needed).
2. Ensure that the contractor provides the Geotechnical Division with the Pile and Driving Equipment Data sheet and the anticipated pile driving schedule at least 14 days in advance of when the anticipated pile driving is scheduled.

Responsibility: Geotechnical Unit

3. Analyze settlement data, piezometer data, and inclinometer data.
4. Perform vibration analysis (as needed)
5. Analyze subgrade stabilization.
6. Observe shallow footing excavation (as needed).
7. Perform Pile Driving Analysis.
8. Support Construction as needed concerning Geotechnical issues.

Geotechnical Procedures For Maintenance

UDOT 08A7-1.3

Responsibility: Region Maintenance Engineer

Actions

1. Request assistance from the Geotechnical Division concerning landslides, slope stability, and subgrade stability issues affecting the roadway.
2. Provide a funding source for the Geotechnical Division to cover costs associated with site investigation and remediation design.

Responsibility: Geotechnical Division

3. Geotech Division will provide an initial site visit, a memorandum outlining a proposed study plan and projected cost of the proposed investigation and study.
4. Upon receiving funding develop a geotechnical evaluation report including a recommended remediation plan.